

File 155:MEDLINE(R) 1950-2006/Sep 18
 (c) format only 2006 Dialog
 File 5:Biosis Previews(R) 1969-2006/Sep W2
 (c) 2006 The Thomson Corporation
 File 73:EMBASE 1974-2006/Sep 15
 (c) 2006 Elsevier B.V.
 File 34:SciSearch(R) Cited Ref Sci 1990-2006/Sep W2
 (c) 2006 The Thomson Corp
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 2006 The Thomson Corp
 File 94:JICST-EPlus 1985-2006/Jun W2
 (c) 2006 Japan Science and Tech Corp (JST)
 File 144:Pascal 1973-2006/Aug W4
 (c) 2006 INIST/CNRS
 File 285:BioBusiness(R) 1985-1998/Aug W1
 (c) 2006 The Thomson Corporation
 File 357:Derwent Biotech Res. 1982-2006/Sep W3
 (c) 2006 The Thomson Corp.
 File 358:Current BioTech Abs 1983-2006/Jan
 (c) 2006 DECHEMA
 File 65:Inside Conferences 1993-2006/Sep 18
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 File 431:MediConf: Medical Con. & Events 1998-2004/Oct B2
 (c) 2004 Dr. R. Steck
 File 23:CSA Technology Research Database 1963-2006/Aug
 (c) 2006 CSA.
 File 45:EMCare 2006/Sep W2
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 File 6:NTIS 1964-2006/Sep W1
 (c) 2006 NTIS, Intl Cpyrght All Rights Res
 File 8:Ei Compendex(R) 1970-2006/Sep W1
 (c) 2006 Elsevier Eng. Info. Inc.
 File 35:Dissertation Abs Online 1861-2006/Aug
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Set	Items	Description
S1	139798	(TISSUE OR BIOPSY OR BIOPSIES OR TISSUES) (5N) SAMPL???
S2	24809021	SUPPORT? ? OR FRAME OR FRAMES OR FRAMEWORK? ? OR MATRIX OR MATRIXES OR MATRICES OR BIOMATERIAL? ? OR STRUCTURE OR STRUCT- URES OR MATERIAL? ? OR PLATFORM? ? OR STAGING? ?
S3	3047585	CUT OR CUTS OR CUTTING OR CUTTABLE OR SECTION??? OR SECTIO- NABLE OR SLICE OR SLICES OR SLICED OR SLICING OR SLICEABLE
S4	4542	MICROTOME? ? OR HISTOTOME? ?
S5	1287	S1(2N) S2
S6	5	S4(S) S5
S7	5	RD (unique items)
S8	34	S2(3N) S3 AND S5
S9	34	S8 NOT S6
S10	18	RD (unique items)
S11	18	Sort S10/ALL/PY,A
S12	3181991	MEMBRANE
S13	2	S1(S) S12(S) S4
S14	2	S13 NOT (S6 OR S8)
S15	2	RD (unique items) [not relevant]

7/3,K/3 (Item 1 from file: 357)
 DIALOG(R) File 357:Derwent Biotech Res.

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0295743 DBR Accession No.: 2002-17590 PATENT

Activatable film useful in capture microdissection, has transfer surface including selectively activatable adhesive layer which provides for adherence to selected regions of sample to be separated - polymerase chain reaction, reverse-transcriptase-polymerase chain reaction, single strand conformational polymorphism analysis for cancer diagnosis and monitoring

AUTHOR: LIOTTA L A; EMMERT-BUCK M; KRIZMAN D B; CHUAQUI R; LINEHAN W M; TRENT J M; BONNER R F; GOLDSTEIN S R; SMITH P D; PETERSON J I
PATENT ASSIGNEE: LIOTTA L A; EMMERT-BUCK M; KRIZMAN D B; CHUAQUI R; LINEHAN W M; TRENT J M; BONNER R F; GOLDSTEIN S R; SMITH P D; PETERSON J I 2002

PATENT NUMBER: US 20020037269 PATENT DATE: 20020328 WPI ACCESSION NO.: 2002-478744 (200251)

PRIORITY APPLIC. NO.: US 780234 APPLIC. DATE: 20010209

NATIONAL APPLIC. NO.: US 780234 APPLIC. DATE: 20010209

LANGUAGE: English

...ABSTRACT: from a sample, e.g. a non-biological sample, or a sample comprising cell section, microtome section or a cell smear, where the microtome section is a paraffin-embedded or formalin-fixed tissue sample. (M1) is useful for direct extraction of cellular materials from tissue sample (all claimed). The microdissection technique is useful in combination with a number of different technologies...

11/7/1 (Item 1 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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04249554 PMID: 785968

Comparative evaluation of various histological techniques for the rapid diagnosis of brain tumours.

Meyermann R; Kletter G

Acta neurochirurgica (AUSTRIA) 1976, 35 (1-3) p171-80, ISSN 0001-6268--Print Journal Code: 0151000

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Intraoperative procedures for the rapid histological diagnosis of space occupying intracranial processes are required. These currently include three major techniques: 1. crush preparations; 2. frozen sections with prefixation, and 3. frozen sections without prefixation. We have compared these techniques, using identical tissue material. While frozen sections of samples subjected to rapid fixation produce the best specimens, crush preparations are preferred wherever a well equipped laboratory is not available.

Record Date Created: 19761029

Record Date Completed: 19761029

11/7/3 (Item 3 from file: 73)

DIALOG(R) File 73:EMBASE

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07522261 EMBASE No: 1999002471

Structural changes in samples cryofixed by contact with a cold metal block

Bennett P.M.

P.M. Bennett, Randall Institute, King's College London, 26/29 Drury Lane,
London WC2B 5RL United Kingdom

Journal of Microscopy (J. MICROSC.) (United Kingdom) 1998, 192/3
(259-268)

CODEN: JMICA ISSN: 0022-2720

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 15

A common method of cryofixation is to bring a specimen rapidly in contact with a cold metal block. It is usually thought that during this process the surface of the specimen suffers little distortion since it freezes rapidly. Whether this is likely depends on the rate at which **samples** freeze compared with the speed at which the **sample** hits the cold block. There is some discrepancy between the published experimentally and theoretically determined freezing rates. As a contribution to this debate the distortion in cryofixed, freeze-substituted, striated muscle fibres has been investigated. In transverse **sections**, compression can be detected by deviations of the filament lattice from the hexagonal and used to estimate the time of freezing. Some specimens were frozen using a Gatan Cryosnapper, which freezes by catching the specimen between two nitrogen-cooled copper jaws. In addition, the speed with which the jaws close has also been determined. The results suggest that freezing of the well-preserved areas occurs in substantially less than 1 ms. This conclusion is **supported** by results obtained using metal-mirror apparatus in which the cushioned specimen was dropped onto a nitrogen- or helium-cooled copper block. All the specimens frozen against a cold block have a fiat edge whereas muscle fibres are round. At the very edge there is evidence of structural damage as well as the more general lattice distortion.

11/7/4 (Item 4 from file: 73)

DIALOG(R)File 73:EMBASE

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07522260 EMBASE No: 1999002470

High-pressure freezing for immunocytochemistry

Monaghan P.; Perusinghe N.; Muller M.

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Surrey SM2 5NG United Kingdom

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Journal of Microscopy (J. MICROSC.) (United Kingdom) 1998, 192/3
(248-258)

CODEN: JMICA ISSN: 0022-2720

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 38

Ultrastructural immunocytochemistry requires that minimal damage to antigens is imposed by the processing methods. Immersion fixation in cross-linking fixatives with their potential to damage antigens is not an ideal approach and rapid freezing as all alternative **sample**-stabilization step has a number of advantages. Rapid freezing at ambient pressure restricts the thickness of well-frozen **material** obtainable to approx. eq. 15 μm or less. In contrast, high-pressure freezing has been demonstrated to provide ice- crystal-artefact-free freezing of **samples** up to 200 μm in thickness.

There have been few reports of high-pressure freezing for immunocytochemical studies and there is no consensus on the choice of post-freezing **sample** preparation. A range of freeze-substitution time and temperature protocols were compared with improved **tissue** architecture as the primary goal, but also to compare ease of resin-embedding, polymerization and immunocytochemical labelling. Freeze-substitution in acetone containing 2% osmium tetroxide followed by epoxy-resin embedding at room temperature gave optimum morphology. Freeze-substitution in methanol was completed within 18h and in tetrahydrofuran within 48 h but the cellular morphology of the Lowicryl- embedded **samples** was not as good as when **samples** were substituted in pure acetone. Acetone freeze-substitution was slow, taking at least 6 days to complete, and gave blocks which were difficult to embed in Lowicryl HM20. Careful handling of frozen **samples** avoiding rapid temperature changes reduced apparent ice-crystal damage in **sections** of embedded **material**. Thus a slow warm-up to freeze-substitution temperature and a long substitution time in acetone gave the best results in terms of freezing quality and cellular morphology. No clear differences emerged between the different freeze- substitution media from immunocytochemical labelling experiments.

File 149:TGG Health&Wellness DB(SM) 1976-2006/Sep W1
 (c) 2006 The Gale Group
 File 129:PHIND(Archival) 1980-2006/Sep W2
 (c) 2006 Informa UK Ltd
 File 135:NewsRx Weekly Reports 1995-2006/Sep W2
 (c) 2006 NewsRx
 File 441:ESPICOM Pharm&Med DEVICE NEWS 2006/Apr W1
 (c) 2006 ESPICOM Bus.Intell.
 File 148:Gale Group Trade & Industry DB 1976-2006/Sep 18
 (c)2006 The Gale Group
 File 16:Gale Group PROMT(R) 1990-2006/Sep 15
 (c) 2006 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 635:Business Dateline(R) 1985-2006/Sep 14
 (c) 2006 ProQuest Info&Learning
 File 636:Gale Group Newsletter DB(TM) 1987-2006/Sep 15
 (c) 2006 The Gale Group
 File 98:General Sci Abs 1984-2006/Sep
 (c) 2006 The HW Wilson Co.
 File 9:Business & Industry(R) Jul/1994-2006/Sep 15
 (c) 2006 The Gale Group

Set	Items	Description
S1	15665	(TISSUE OR BIOPSY OR BIOPSIES OR TISSUES) (5N) SAMPL???
S2	10296240	SUPPORT? ? OR FRAME OR FRAMES OR FRAMEWORK? ? OR MATRIX OR MATRIXES OR MATRICES OR BIOMATERIAL? ? OR STRUCTURE OR STRUCT- URES OR MATERIAL? ? OR PLATFORM? ? OR STAGING? ?
S3	4224056	CUT OR CUTS OR CUTTING OR CUTTABLE OR SECTION??? OR SECTIO- NABLE OR SLICE OR SLICES OR SLICED OR SLICING OR SLICEABLE
S4	420	MICROTOME? ? OR HISTOTOME? ?
S5	149308	MEMBRANE? ?
S6	210	S1(3N)S2
S7	3	S6(5N)S3
S8	0	S6(S)S4
S9	2	S1(S)S2(S)S4
S10	5	S7:S9
S11	5	RD (unique items) [not relevant]
S12	1	S4(2N)S2 [not relevant]
S13	3	(S1(3N)S5)(S)S3:S4
S14	3	S13 NOT S7:S12 [too recent]
S15	8	S6(S)S3
S16	5	S15 NOT S7:S13
S17	5	RD (unique items) [not relevant]

File 350:Derwent WPIX 1963-2006/UD=200658

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File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)

(c) 2006 JPO & JAPIO

Set	Items	Description
S1	10081	(TISSUE OR BIOPSY OR BIOPSIES OR TISSUES) (5N) SAMPL???
S2	7961057	SUPPORT? ? OR FRAME OR FRAMES OR FRAMEWORK? ? OR MATRIX OR MATRIXES OR MATRICES OR MEMBRANE? ? OR BIOMATERIAL? ? OR STRU- CTURE OR STRUCTURES OR MATERIAL? ? OR PLATFORM? ? OR STAGING? ?
S3	3392155	CUT OR CUTS OR CUTTING OR CUTTABLE OR SECTION??? OR SECTIO- NABLE OR SLICE OR SLICES OR SLICED OR SLICING OR SLICEABLE
S4	734	MICROTOME? ? OR HISTOTOME? ?
S5	273	S1 (2N) S2
S6	212167	S2 (3N) S3
S7	23	S5 AND S6
S8	4	S4 AND S7
S9	96227	IC= (A61B-005? OR B01L-003?)
S10	3	S7 AND S9
S11	0	S10 NOT S8
S12	528	S1 (S) S2 (S) S3 : S4
S13	19	S7 NOT (S8 OR S10)
S14	31	S12 AND S4
S15	27	S14 NOT S7
S16	3	S15 AND S9
S17	24	S15 NOT S16
S18	0	S17 AND AD<2002
S19	373355	AD=2002
S20	370185	AD=2003
S21	195890	AD=2004
S22	18130	AD=2005
S23	0	AD=2006
S24	24	S17 NOT S19 : S22
S25	18	S12/TI
S26	12	S25 NOT (S8 OR S10 OR S7 OR S15)
S27	0	S14 NOT (S25 OR S8 OR S10 OR S7 OR S15)

8/5/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0010794997 - Drawing available

WPI ACC NO: 2001-410676/

XRPX Acc No: N2001-303804

Microtome for cutting biological tissue samples has aspiration unit outside cutting unit for sections cut from tissue

Patent Assignee: BIO OPTICA-MILANO SPA (BIOO-N)

Inventor: SBONA C

Patent Family (1 patents, 25 countries)

Patent	Application
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Number	Kind	Date	Number	Kind	Date	Update
EP 1094310	A1	20010425	EP 1999830659	A	19991020	200144 B

Priority Applications (no., kind, date): EP 1999830659 A 19991020

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
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EP 1094310	A1	EN	14	10	
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Regional Designated States, Original: AL AT BE CH CY DE DK ES FI FR GB GR
IE IT LI LT LU LV MC MK NL PT RO SE SI

Alerting Abstract EP A1

NOVELTY - **Microtome** comprises moveable **support** (5) which performs alternating movement combined with micrometric advance for **tissue sample** (6), and **cutting** unit (10) which has inclined upper surface (19) for collecting **sections** which are aspirated from outside the **cutting** unit. The aspiration device is rigid aspiration tube (24) connected to an aspirator.

DESCRIPTION - There is an INDEPENDENT CLAIM for an aspiration apparatus.

USE - **Microtome** is for **cutting** thin **sections** from **tissue samples** for use in e.g. histology applications.

DESCRIPTION OF DRAWINGS - The figure shows the **microtome**.

Class Codes

International Classification (Main): G01N-001/06

13/5/7 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0013669137

WPI ACC NO: 2003-765524/

Related WPI Acc No: 2004-429536; 2004-570706

XRAM Acc No: C2003-210156

Generating three-dimensional hepatic cell culture system by contacting a matrix with hepatic cell culture comprising hepatocytes and non-parenchymal cells bound to matrix coated with promoter of cell adhesion or survival

Patent Assignee: BOWEN W C (BOWE-I); MICHALOPOULOS G (MICH-I)

Inventor: BOWEN W C; MICHALOPOULOS G

Patent Family (1 patents, 1 countries)

Patent	Application
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Number	Kind	Date	Number	Kind	Date	Update
US 20030096411	A1	20030522	US 1999455952	A	19991207	200372 B
			US 2002281575	A	20021028	

Priority Applications (no., kind, date): US 1999455952 A 19991207; US 2002281575 A 20021028

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
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US 20030096411	A1	EN	38	22	C-I-P of application US 1999455952
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Alerting Abstract US A1

NOVELTY - Generating (M1) a three-dimensional (3D) hepatic cell culture system, involves contacting a 3D **support matrix** with hepatic cell culture comprising hepatocytes and non-parenchymal cells bound to a **matrix** coated with at least one biologically active molecule that promotes cell adhesion, proliferation or survival, under conditions sufficient to allow for the proliferation of the hepatic cell culture to form 3D hepatic cell **structure**.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. generating (M2) a hepatic cell culture involves co-culturing hepatocytes and non-parenchymal cells, in the presence of growth factors, corticosteroid and a **matrix** coated with at least one biologically active molecule that promotes cell adhesion, proliferation or survival under conditions sufficient to allow for the proliferation of hepatocytes that retain hepatic function;
2. a population of **matrix**/hepatic cell clusters comprising hepatocytes and non-parenchymal cells associated with a **matrix** coated with at least one biologically active molecule that promotes cell adhesion, proliferation or survival;
3. a composition comprising **matrix**/hepatic cell clusters grown on a 3D **support matrix**, where the **matrix** hepatic cell clusters comprising hepatocytes and non-parenchymal cells bound to a **matrix** coated with at least one biologically active molecule that promotes cell adhesion, proliferation or survival;
4. a three-dimensional **tissue** culture **matrix** (I) prepared by (M1); and
5. providing hepatic function in a subject having a liver disorder involves administering (I) to the subject such that the symptoms associated with the liver disorder is reduced.

ACTIVITY - Hepatotropic; Antiinflammatory. No biological data given.

MECHANISM OF ACTION - None given.

USE - (M1) is useful for generating a three-dimensional hepatic cell culture system. (I) is useful for providing hepatic function in a subject having liver disorder e.g., cirrhosis or hepatitis (claimed). (I) can be used to form bioartificial liver through which a subject's blood is perfused.

ADVANTAGE - (I) provides for the long term culture of proliferating hepatocytes that retain hepatic function. (I) restores liver function and by generating long term culture of hepatocytes, provides a safer alternative to whole liver transplantation in subjects having the liver disorders.

Class Codes

International Classification (Main): C12N-005/02

(Additional/Secondary): A01N-065/00, C12N-005/00

US Classification, Issued: 435373000, 424093700, 435395000

13/5/11 (Item 11 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0011183494 - Drawing available

WPI ACC NO: 2002-121440/200216

Related WPI Acc No: 2002-129857; 2002-194997; 2002-214544; 2002-255509

XRAM Acc No: C2002-037135

XRPX Acc No: N2002-091087

Fixing or processing sample or tissue for immunohistochemistry or in situ hybridization or for rapid clinical pathology diagnosis, by exposing sample

to high frequency ultrasound produced by ultrasound transducer

Patent Assignee: AMERICAN REGISTRY OF PATHOLOGY (AMRE-N)

Inventor: CHU W

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20010053525	A1	20011220	US 1999407964	A	19990929	200216 B
			US 2001901121	A	20010710	
US 7090974	B2	20060815	US 2001901121	A	20010710	200654 E

Priority Applications (no., kind, date): US 1999407964 A 19990929; US 2001901121 A 20010710

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20010053525	A1	EN	33	13	Division of application US 1999407964

Alerting Abstract US A1

NOVELTY - Fixing or processing (M1) a **sample** or a **tissue** involves exposing the **sample** or the **tissue** to ultrasound (US) of a frequency of at least 100 KHz, where US is produced by an US transducer.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. performing (M2) immunohistochemistry, ~in situ~ hybridization or fluorescent ~in situ~ hybridization on a solid phase or Southern, Northern hybridization, a Western annealing or an enzyme linked immunosorbent assay (ELISA), by using US at a frequency of at least 100 KHz;
2. a system (I) comprising an US transducer, an US generator, an US sensor and a central processing unit (CPU);
3. a robotic system (II) comprising units for moving a **sample** or **tissue** and an US transducer from a first reaction chamber to a second reaction chamber; and
4. a system (III) for processing a **sample** comprising a reaction chamber, an US transducer and a CPU.

USE - M1 is useful for fixing or processing a **sample** or **tissue** using US of high frequency. (III) is useful for processing a **tissue sample**, a **membrane** filter, a **tissue sample** mounted on a slide, a nucleic acid chip, a microarray of a **tissue** or an immuno chip (claimed).

The method is useful in a variety of histological, pathological, immunological and molecular techniques. US fixed and processed **tissue** may be used for rapid immunohistochemistry or in situ hybridization or for rapid clinical pathology diagnosis. High quality fixed **tissue sections** may be used for laser capture microdissection, mRNA extraction and PCR studies. High quality fixed **tissue** blocks may be used for high throughput **tissue** microanalysis of the DNA, RNA and protein target for a large series of cancer research.

ADVANTAGE - The method decreases the time for conducting histology or pathology study on **tissue samples** by applying US to the **tissue**. US-fixation method provides excellent morphologic detail and excellent preservation of a variety of protein antigens and mRNA in a few minutes. US fixed specimens are superior to routine formalin fixed **tissues** for the immunohistochemistry performed for short times. The method also allows preservation of high quality morphology proteins and mRNA from routine formalin fixation and processing.

The technique is fast, simple, easy to perform, versatile and enables in situ hybridization and immunohistochemistry results to be uniform throughout. The method allows use of more power without destroying cells, and therefore equates to greater speed of reaction.

DESCRIPTION OF DRAWINGS - The figure shows a **tissue** in a buffer being treated with ultrasound.

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G01N-0001/30 A I R 20060101

G01N-0001/44 A I R 20060101

G01N-0033/543 A I F B 20060101

G01N-0001/30 C I R 20060101

G01N-0001/44 C I R 20060101

US Classification, Issued: 435287200, 435006000, 435006000, 427002130, 427004000, 435001100, 435001300, 435040500, 435040520, 435325000, 422020000

13/5/12 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0011065664 - Drawing available

WPI ACC NO: 2002-000642/200201

XRAM Acc No: C2002-000368

Diagnosing neurodegenerative disease, e.g., Creutzfeld-Jakob disease and Bovine Spongiform Encephalopathy, on formalin-fixed tissue sections comprises spreading and cleaning a tissue sample on membrane for incubation with protease solution

Patent Assignee: SCHULZ-SCHAEFFER W (SCHU-I)

Inventor: SCHULZ-SCHAEFFER W

Patent Family (2 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
DE 19963198	A1	20010920	DE 19963198	A	19991227	200201 B
DE 19963198	B4	20041230	DE 19963198	A	19991227	200502 E

Priority Applications (no., kind, date): DE 19963198 A 19991227

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
DE 19963198	A1	DE	6	1		

Alerting Abstract DE A1

NOVELTY - A **tissue section** (I) is spread out on the upper side of a **membrane** (II). The paraffin wax is removed and (I) is dried on (II), then incubated with a protease solution (III). An absorbent layer soaked with (III) is brought into contact with the underside of (II). Periodically, (III) is trickled over (I), or coated over it. (II) is washed and finally incubated with protein denaturing agent.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.a **membrane** with proteins from a **tissue section** arranged on its upper surface. Topological arrangement of proteins on the **membrane** corresponds with the original topological arrangement in the **tissue section**, the **membrane** having been prepared as described; and
- 2.an apparatus comprising a casing (4), base (8) and optional removable cover (6). On the base (8) a layer (10) of absorbent **material** (12) is arranged, dimensioned for central arrangement with spacing from the wall (14). Its upper surface (18) carries the **membrane** (20). The protease solution (16) at the base, soaks the absorbent.

Preferred features: The casing is trough-shaped. The layer is single or multilayer, comprising the same, or different absorbent **materials**.

USE - For topological detection of proteins of an initially wax-mounted

tissue sample. Investigation and diagnosis of diverse neurodegenerative illnesses affecting the brain, is facilitated. These include Creutzfeld-Jakob disease (CJD), scrapie, Bovine Spongiform Encephalopathy (BSE), and FFI (fetal familial insomnia).

ADVANTAGE - Topological detection is achieved, with **tissues** fixed in formalin and embedded in paraffin wax. Following the final incubation stage, detection is carried out using known methods. Detection is qualitative and quantitative, using a selected immunohistochemical method. Greater sensitivity is achieved than in comparable prior art. **Samples** long-archived, can be examined.

DESCRIPTION OF DRAWINGS - The apparatus is seen in cross **section**.

4 casing
6 cover
8 base
10 layer
12 absorbent **material**
14 wall
16 protease solution
18 upper surface
20 **membrane**

Class Codes

International Classification (Main): C12Q-001/37

(Additional/Secondary): C12M-001/40, C12N-011/12

13/5/14 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0010453665 - Drawing available

WPI ACC NO: 2001-053150/

XRAM Acc No: C2001-014948

XRPX Acc No: N2001-040956

Support for fixing biopsy sample contains glucomannan oxide or carboxylic acid, obtained by oxidizing fine powder of konjak mannan by nitric acid, filtering and recovering by precipitating in alcohol

Patent Assignee: TAKESAKI T (TAKE-I)

Inventor: TAKEZAKI T

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
JP 2000266744	A	20000929	JP 199976843	A	19990319	200107 B
Priority Applications (no., kind, date): JP 199976843 A 19990319						

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
JP 2000266744	A	JA	8	9		

Alerting Abstract JP A

NOVELTY - A **support** (5) for fixing **biopsy sample** (3) contains glucomannan oxide (or its derivative such as glucomannan carboxylic acid). Glucomannan is obtained by oxidizing fine powder of konjak mannan of potato with nitric acid. Then filtered and recovered by precipitating in alcohol.

DESCRIPTION - An **INDEPENDENT CLAIM** is also included for the manufacture of **support for fixing biopsy sample**.

USE - As **support for fixing biopsy sample**.

ADVANTAGE - **Thin cut flat surface of biopsy sample** can be provided and automation of the process is advanced. It is easy to perform gelling with a gelatinizer (7) after fixing the **sample** to the **support**. Neutralized

material of acetyl glucomannan oxide or glucomannan carboxylic acid is transparent, thereby its provides an excellent **support**.

DESCRIPTION OF DRAWINGS - The figure shows the cross **section** view of **support** holding **biopsy sample**.

3 Biopsy sample

5 Fixing support

7 Gelatinizer

Class Codes

International Classification (Main): G01N-033/48

(Additional/Secondary): G01N-001/36

13/5/18 (Item 18 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0007360487 - Drawing available

WPI ACC NO: 1995-147289/

XRFX Acc No: N1995-115629

Mechanical triturator for animal or vegetable tissue - comprising cylindrical housing defining chamber in which perforated cutting plate is disposed with rotor having screw which cooperates with cutting plate

Patent Assignee: CONSUL T S DI ROGGERO & C SNC GIANMARCO (CONS-N); CONSUL

TS SRL (CONS-N); CONSULT TS DI ROGGERO & C SNC GIANMARCO (CONS-N);

ROGGERO G (ROGG-I); TS DI ROGGERO & C SNC GIANMARCO (TSRO-N)

Inventor: ROGGERO G

Patent Family (10 patents, 20 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1995009051	A1	19950406	WO 1994EP3202	A	19940926	199519 B
AU 199478098	A	19950418	AU 199478098	A	19940926	199531 E
EP 720513	A1	19960710	EP 1994928814	A	19940926	199632 E
			WO 1994EP3202	A	19940926	
IT 1260682	B	19960422	IT 1993TO706	A	19930928	199651 E
AU 676386	B	19970306	AU 199478098	A	19940926	199718 E
JP 9502925	W	19970325	WO 1994EP3202	A	19940926	199722 E
			JP 1995510107	A	19940926	
US 5731199	A	19980324	WO 1994EP3202	A	19940926	199819 E
			US 1996615282	A	19960327	
EP 720513	B1	19980805	EP 1994928814	A	19940926	199835 E
			WO 1994EP3202	A	19940926	
DE 69412272	E	19980910	DE 69412272	A	19940926	199842 E
			EP 1994928814	A	19940926	
			WO 1994EP3202	A	19940926	
ES 2121230	T3	19981116	EP 1994928814	A	19940926	199901 E

Priority Applications (no., kind, date): IT 1993TO706 A 19930928

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 1995009051	A1	EN	11	5	
National Designated States,Original: AU CA JP US					
Regional Designated States,Original: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE					
AU 199478098	A	EN			Based on OPI patent WO 1995009051
EP 720513	A1	EN	11	5	PCT Application WO 1994EP3202
Based on OPI patent WO 1995009051					
Regional Designated States,Original: AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE					

AU 676386	B	EN			Previously issued patent AU 9478098
					Based on OPI patent WO 1995009051
JP 9502925	W	JA	14		PCT Application WO 1994EP3202
					Based on OPI patent WO 1995009051
US 5731199	A	EN	6	5	PCT Application WO 1994EP3202
					Based on OPI patent WO 1995009051
EP 720513	B1	EN			PCT Application WO 1994EP3202
					Based on OPI patent WO 1995009051
Regional Designated States, Original: AT BE CH DE DK ES FR GB GR IE IT LI					
NL PT SE					
DE 69412272	E	DE			Application EP 1994928814
					PCT Application WO 1994EP3202
					Based on OPI patent EP 720513
					Based on OPI patent WO 1995009051
ES 2121230	T3	ES			Application EP 1994928814
					Based on OPI patent EP 720513

Alerting Abstract WO A1

The mechanical triturator comprises a cylindrical housing (2) defining a chamber (4) with a perforated **cutting** plate (6). The plate is disposed transversely in the chamber so as to define an input portion (12) for the supply of the **material** to be triturated, and a portion (14) for collecting the triturated **material**. The collecting portion has a blades extending from the general plane of the plate into the input portion.

A rotary blade (16) is mounted in the chamber with a grinding screw (20) which is fixed to the rotary blade and is disposed in the input portion. The screw cooperates with the **cutting** plate in order to supply the blades with the biological **material**.

USE/ADVANTAGE - Provides mechanical device which avoids lengthy and tedious mechanical chopping operations carried out with scalpels or like and enzymatic cell-separation treatments.

Class Codes

International Classification (Main): B02C, B02C-018/10, B02C-018/30, C12M-003/00

(Additional/Secondary): B02C-018/30, B02C-018/36, G01N-001/28, G01N-033/48

US Classification, Issued: 435306100, 241082500, 241083000, 241088000, 241089400, 241194000

16/5/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0013448568 - Drawing available

WPI ACC NO: 2003-539823/

XRAM Acc No: C2003-146292

Device for entombing a tissue sample for frozen histologic sectioning comprises a sample receptacle held in a base unit and sealed with a chuck, and a cap mounted on a guide rod that holds the chuck in place during sample freezing

Patent Assignee: BRADLEY PROD INC (BRAD-N)

Inventor: DAVIDSON T M

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 6558629	B1	20030506	US 2000711662	A	20001113	200351 B

Priority Applications (no., kind, date): US 2000711662 A 20001113

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 6558629	B1	EN	20	19		

Alerting Abstract US B1

NOVELTY - A **tissue sample** entombing device comprising a cup-shaped receptacle (10), a chuck (50) with a planar surface and stem (60), a base (210) with a recess 280 to receive the receptacle, a cap (220) with a recess to receive the stem of the chuck, and a guide rod (230) fixed to the base on which the cap can slide, is new.

DESCRIPTION - An **INDEPENDENT CLAIM** is also included for a dipping assembly (200) for freezing a **tissue specimen**, which comprises two members. One end of one member is adapted to receive a chuck (50) and one end of the other member is adapted to receive a cup-shaped receptacle (10). The two members are pivotally connected to one another at a point between their ends such that upon spreading the second ends away from one another, the chuck-receiving member moves away from the receptacle-receiving member.

USE - The device is used for entombing a **tissue specimen**. It is used in the preparation of a **tissue sample** for frozen histologic **sectioning** or for preparing **tissue sections** for microscopic examination during surgery using frozen **section** technique for extirpation of neoplasms.

ADVANTAGE - The inventive device minimizes the size, bulk, and power requirements of the equipment involved and the time required in the preparation of the **tissue samples** for **sectioning**.

DESCRIPTION OF DRAWINGS - The figure is a side elevational view, with portions shown in cross-section, of the alignment device holding a receptacle and chuck member in position while the assembly is dipped in a pool of cooling liquid or gas.

- 10 Cup-shaped receptacle
- 50 Chuck
- 60 Stem
- 200 Dipping assembly
- 210 Base
- 220 Chuck-receiving member
- 230 Guide rod
- 240 Recess on chuck-receiving member
- 280 Recess in base
- 290 Ledge

Class Codes

International Classification (Main): **B01L-003/00**

US Classification, Issued: 422099000, 435040500

16/5/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0012938632 - Drawing available

WPI ACC NO: 2003-015255/

XRAM Acc No: C2003-003693

XRPX Acc No: N2003-011229

Preparation of portion of tissue having cells by homogeneously disturbing cells with tissue portion throughout fluid embedding medium, and introducing medium portion into axial bore in tubular member

Patent Assignee: DAKO AS (DAKO-N); DAKOCYTOMATION DENMARK AS (DAKO-N)

Inventor: HUANG D S; WINTHER L

Patent Family (5 patents, 99 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
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US 6458598	B1	20021001	US 2001929642	A	20010813	200301	B
WO 2003016872	A1	20030227	WO 2002DK532	A	20020812	200316	E
EP 1417472	A1	20040512	EP 2002754558	A	20020812	200431	E
			WO 2002DK532	A	20020812		
AU 2002321013	A1	20030303	AU 2002321013	A	20020812	200452	E
JP 2004538484	W	20041224	WO 2002DK532	A	20020812	200502	E
			JP 2003521330	A	20020812		

Priority Applications (no., kind, date): US 2001929642 A 20010813

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 6458598	B1	EN	4	2		
WO 2003016872	A1	EN				

National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BY
BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ
NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ
VN YU ZA ZM ZW

Regional Designated States, Original: AT BE BG CH CY CZ DE DK EA EE ES FI
FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG
ZM ZW

EP 1417472 A1 EN PCT Application WO 2002DK532
Based on OPI patent WO 2003016872

Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI
FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

AU 2002321013 A1 EN Based on OPI patent WO 2003016872
JP 2004538484 W JA 24 PCT Application WO 2002DK532
Based on OPI patent WO 2003016872

Alerting Abstract US B1

NOVELTY - A portion of a **tissue** comprising cells is prepared by homogeneously disturbing the cells with the **tissue** portion throughout a volume of a fluid embedding medium; introducing a volume portion of the medium into an axial bore in a tubular member; and mounting a formed separated portion of a formed cylindrical plug on a rigid **support** substrate.

DESCRIPTION - Preparation of a portion of a **tissue** comprising cells for microscopic examination, includes placing the **tissue** portion (10) into a volume of a fluid embedding medium (11); disrupting the portion until the cells having the portion are disturbed homogeneously throughout the volume of the medium; introducing a portion of the volume of the medium into an axial bore in a tubular member; solidifying a fluid embedding **material** within the axial bore to form a cylindrical plug; extruding a portion of the plug from the axial bore and separating a portion of the plug to form a separated portion; and mounting the separated portion of the plug on a rigid **support** substrate.

USE - For preparing a portion of a **tissue** comprising cells for microscopic examination.

ADVANTAGE - The novel method improves the probability of a particular cell type of interest in a particular **section** and field of view.

DESCRIPTION OF DRAWINGS - The figure is a schematic diagram illustrating sequential steps for **tissue sample** preparation.

10 **Tissue** portion

11 Fluid embedding medium

Class Codes

International Classification (Main): G01N-001/28, G01N-001/36, G01N-033/48

(Additional/Secondary): **B01L-003/02**

US Classification, Issued: 436176000, 427002110, 427004000, 435040500,

435040510, 435040520

24/5/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0014672978 - Drawing available

WPI ACC NO: 2005-020560/

XRAM Acc No: C2005-006409

XRPX Acc No: N2005-017480

Preparing tissue sample for microscopic examination in histological study involves introducing fluid medium having distributed tissue cells in bore of pipette and solidified, to form cylindrical plug that is sliced to obtain tissue section

Patent Assignee: PETIT M G (PETI-I)

Inventor: PETIT M G

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 20040248237	A1	20041209	WO 2002DK532	A	20020812	200502 B
			US 2004486491	A	20040209	

Priority Applications (no., kind, date): US 2001929642 A 20010813

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 20040248237	A1	EN	7	2	PCT Application	WO 2002DK532

Alerting Abstract US A1

NOVELTY - Preparing a **tissue sample** (10) having cells for microscopic examination involves placing the sample in a volume of fluid embedding medium (11) and disrupting the sample to distribute tissue cells homogeneously throughout the volume; introducing a portion of the volume (14) having tissue cells, in an axial bore of a pipette (15); solidifying the portion to form a cylindrical plug; and extruding and separating thin circular slices of plug from bore to be mounted on a slide.

USE - To prepare a **tissue** (e.g. cell line) **sample** comprising cells, for microscopic examination (claimed), particularly for **sectioning** and mounting biological **tissue sample** (e.g. tumor/tumor cell line) on a microscopic slide for staining and examination, useful in histological/histopathological study to preserve cytological specimens.

ADVANTAGE - The **tissue** cells are evenly distributed throughout the **tissue** preparation (plug) and **tissue sections** (circular slices) derived from the plug. Microscopic examination of such **tissue sections** on the slide provides improved probability of a cell of interest being disposed within a particular **section** and field of view of the examiner, as compared to prior art methods of **tissue sample** preparation that cause clumping of the **tissue** cells. The size of the **sections** can be controlled.

DESCRIPTION OF DRAWINGS - The figure shows a schematic diagram illustrating the steps for **tissue sample** preparation.

- 10 **tissue sample**
- 11 fluid embedding medium
- 13 cell dispersing device
- 14 fluid embedding medium with distributed **tissue** cells
- 15 pipette.

Class Codes

International Classification (Main): G01N-033/48

(Additional/Secondary): G01N-001/30

US Classification, Issued: 435040520

24/26, TI/13 (Item 13 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0009681606

WPI ACC NO: 1999-034900/199903

Surgical microtome for slicing lamellar segment from biological tissue, especially corneal tissue - has reference member engaging tissue, and peripheral, guiding edge integral with reference member for guiding flexible wire or band cutter

24/26, TI/15 (Item 15 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0008576694

WPI ACC NO: 1998-111212/199811

Disc microtome for sectioning biological tissue - employs rotating disc with sample carrier, fixed knife blade and sliding carriage for regulating relative motion of sample and blade

24/26, TI/16 (Item 16 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0008135872

WPI ACC NO: 1997-235875/199721

Direct extn. of material from tissue samples - by contact with selectivity activated region of transfer surface having adhesive properties

24/5/10 (Item 10 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0012629955

WPI ACC NO: 2002-478744/200251

Related WPI Acc No: 1995-320650; 1997-235875; 2001-456502; 2001-578814

XRAM Acc No: C2002-136151

Activatable film useful in capture microdissection, has transfer surface including selectively activatable adhesive layer which provides for adherence to selected regions of sample to be separated

Patent Assignee: BONNER R F (BONN-I); CHUAQUI R (CHUA-I); EMMERT-BUCK M (EMME-I); GOLDSTEIN S R (GOLD-I); KRIZMAN D B (KRIZ-I); LINEHAN W M (LINE-I); LIOTTA L A (LIOT-I); PETERSON J I (PETE-I); SMITH P D (SMIT-I); TRENT J M (TREN-I); US DEPT HEALTH & HUMAN SERVICES (USSH)

Inventor: BONNER R F; CHUAQUI R; EMMERT-BUCK M; GOLDSTEIN S R; KRIZMAN D B; LINEHAN W M; LIOTTA L A; PETERSON J I; SMITH P D; TRENT J M

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20020037269	A1	20020328	WO 1995US2432	A	19950301	200251 B
			WO 1996US16517	A	19961009	
			US 199736927	P	19970207	
			US 199818596	A	19980204	
			US 1999364617	A	19990729	
			US 2001780234	A	20010209	
US 6867038	B2	20050315	US 1994203780	A	19940301	200520 E

WO 1995US2432 A 19950301
 US 1995544388 A 19951010
 US 199736927 P 19970207
 US 199818596 A 19980204
 US 1999364617 A 19990729
 US 2001780234 A 20010209

Priority Applications (no., kind, date): US 1995544388 A 19951010; US 1994203780 A 19940301; US 1999364617 A 19990729; US 199818596 A 19980204; US 199736927 P 19970207; WO 1996US16517 A 19961009; WO 1995US2432 A 19950301; US 2001780234 A 20010209

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020037269	A1	EN	30	10	C-I-P of application WO 1995US2432 Division of application WO 1996US16517 Related to Provisional US 199736927 Division of application US 199818596 Division of application US 1999364617 Division of patent US 6251467 Division of patent US 6251516
US 6867038	B2	EN			C-I-P of application US 1994203780 C-I-P of application WO 1995US2432 Continuation of application US 1995544388 Related to Provisional US 199736927 Division of application US 199818596 Division of application US 1999364617 C-I-P of patent US 5843644 Continuation of patent US 5843657 Division of patent US 6251467 Division of patent US 6251516

Alerting Abstract US A1

NOVELTY - Activatable film (I) for activated use in capture micro-dissection, has film (F) having normal non-adherence to biological **sample** (S), and is activatable upon heating for becoming adhesive at activated region for adhering to S at activated region.

DESCRIPTION - Activatable film (I) for activated use in capture micro-dissection where a source emits electromagnetic energy outside of a range of human vision, comprises:

- 1.a film having a normal non-adherence to a biological **sample**
- 2.the film optically transparent in the range of human vision for permitting the biological **sample** to be viewed through the film,
- 3.the film activatable upon heating for becoming adhesive at an activated region for adhering to a biological **sample** at the activated region, and
- 4.a dye on the film which is optically transparent, the dye coupling to and transducing the electromagnetic energy outside of the range of human vision to heat and activate the film to become adhesive at the activated region.

INDEPENDENT CLAIMS are included for the following:

- 1.a combination of a biological **sample**, a microscope for viewing the biological **sample** at a selected portion, a light source for illuminating the **sample** in a range of human vision for view in the microscope, which has an improvement in that it comprises (F) as described as above, and a dye on the film which is optically transparent, and that couples to and transduces electromagnetic energy outside the range of a human vision, to heat and activate the film to adhesive at the activated regional; a source of electromagnetic energy

outside of the range of human vision for being locally directed on the dye on the film overlying the selected portion of the biological **sample** to couple to the dye, heat the film, and activate the film to become adhesive for adhering to the selected portion of the biological **sample**; an unit for moving the film into apposition with biological **sample**; and unit for directing the source of electromagnetic energy to the film in apposition, where the selected cellular **material** from the biological **sample** is adhered to the film; and

2. direct extraction (M1) of **material** from a **sample**, by providing a **sample**, providing a transfer surface which only upon activation at selected regions has a property to provide the selected regions with adhesive characteristics to the **sample**, juxtaposing the **sample** with the transfer surface, identifying at least a portion of the **sample** which is to be extracted, activating a region on the transfer surface with pulsed radiation so that the selected region of the transfer surface adheres to the portion of the **sample**, separating the transfer surface from the **sample** while maintaining adhesion between the selected region of the transfer surface and the portion of the **sample** is extracted from a remaining portion of the **sample**.

USE - (M1) is useful for direct extraction of **materials** from a **sample**, e.g. a non-biological **sample**, or a **sample** comprising cell **section**, **microtome section** or a cell smear, where the **microtome section** is a paraffin-embedded or formalin-fixed **tissue sample**. (M1) is useful for direct extraction of cellular **materials** from **tissue sample** (all claimed).

The microdissection technique is useful in combination with a number of different technologies that allow for analysis of enzymes, mRNA or DNA from pure populations or subpopulations of particular cell types. This simple technique may have utility in characterizing protease distribution during human tumor invasion, precisely determining protease expression in tumor and/or stromal cell populations as an indicator of tumor-aggressiveness, and monitoring the effectiveness of anti-protease therapeutic agents in inhibiting protease activity at the tumor-stromal interface. In addition, combination of this microdissection technique with polymerase chain reaction (PCR), reverse transcriptase-PCR (RT-PCR), differential display and single stranded conformational polymorphism (SSCP) may identify genetic alterations in specific subpopulations of tumor or stromal cell that would not be evident in heterogeneous human tumor **samples**.

Class Codes

International Classification (Main): C12N-013/00, C12N-005/00

(Additional/Secondary): A61K-031/74

US Classification, Issued: 424078080, 435173100, 424078020, 424078040, 435325000, 435029000, 435030000, 435363000, 435001100, 436008000

24/5/11 (Item 11 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0010857167 - Drawing available

WPI ACC NO: 2001-476034/200151

XRAM Acc No: C2001-142790

XRPX Acc No: N2001-352333

Production of block of material with recesses for tissue samples for analysis in histology, histochemistry, immunohistochemistry and in-situ hybridization comprises casting suitable material in mold which produces recesses of desired depth

Patent Assignee: LILISCHKIS R (LILI-I); MENGEL M (MENG-I); VON WASIELEWSKI R (VWAS-I); WASIELEWSKI R (WASI-I); WASILEWSKI R V (WASI-I); WASIELEWSKI R V (WASI-I)
 Inventor: LILISCHKIS R; MENGEL M; VON WASIELEWSKI R; WASILEWSKI R V; WASIELEWSKI R

Patent Family (9 patents, 93 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
WO 2001051910	A1	20010719	WO 2000DE4647	A	20001222	200151 B
DE 10001136	A1	20010726	DE 10001136	A	20000113	200151 E
AU 200133605	A	20010724	AU 200133605	A	20001222	200166 E
EP 1247085	A1	20021009	EP 2000991575	A	20001222	200267 E
			WO 2000DE4647	A	20001222	
US 20030038401	A1	20030227	WO 2000DE4647	A	20001222	200318 E
			US 2002169960	A	20020813	
DE 10001136	C2	20030904	DE 10001136	A	20000113	200360 E
EP 1247085	B1	20060215	EP 2000991575	A	20001222	200614 E
			WO 2000DE4647	A	20001222	
US 7029615	B2	20060418	WO 2000DE4647	A	20001222	200627 E
			US 2002169960	A	20020813	
DE 50012240	G	20060420	DE 50012240	A	20001222	200629 E
			EP 2000991575	A	20001222	
			WO 2000DE4647	A	20001222	

Priority Applications (no., kind, date): DE 10001136 A 20000113

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2001051910	A1	DE	37	6	
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200133605	A	EN			Based on OPI patent WO 2001051910
EP 1247085	A1	DE			PCT Application WO 2000DE4647
					Based on OPI patent WO 2001051910
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
US 20030038401	A1	EN			PCT Application WO 2000DE4647
EP 1247085	B1	DE			PCT Application WO 2000DE4647
					Based on OPI patent WO 2001051910
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR					
US 7029615	B2	EN			PCT Application WO 2000DE4647
					Based on OPI patent WO 2001051910
DE 50012240	G	DE			Application EP 2000991575
					PCT Application WO 2000DE4647
					Based on OPI patent EP 1247085
					Based on OPI patent WO 2001051910

Alerting Abstract WO A1

NOVELTY - Production of a block of **material** with recesses designed for containing **samples** for analysis comprises casting a suitable **material** in a mold which produces recesses of the desired depth.

DESCRIPTION - INDEPENDENT CLAIMS are included for:

1. production of a block of **material** containing **samples** for analysis comprising inserting them into recesses in a block as described above

- and bonding them to its surface;
2. producing thin **sections** for analysis comprises **cutting slices** of thickness 2 - 5 microns from a block as described in **section (a)** , using a **microtome** ; and
3. the block itself.

USE - For **tissue samples** used in histology, histochemistry, immunohistochemistry and in-situ hybridization.

ADVANTAGE - **Tissue samples** of a standard size and quality are produced.

DESCRIPTION OF DRAWINGS - The drawing shows the production method.

Class Codes

International Classification (Main): B29C-065/00, G01N-001/28, G01N-001/36

(Additional/Secondary): G01N-033/48, G01N-033/543

International Classification (+ Attributes)

IPC + Level Value Position Status Version

B29C-0065/00 A I F B 20060101

G01N-0001/36 A I F B 20060101

G01N-0001/36 A I F 20060101

24/5/17 (Item 17 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0007775880

WPI ACC NO: 1996-401594/199640

XRAM Acc No: C1996-126228

Appts. for preparing tissue samples and method of making tissue samples - using mould and plunger having head supporting sample for enclosing in gel before slicing

Patent Assignee: KRUMDIECK C (KRUM-I)

Inventor: KRUMDIECK C

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 5550033	A	19960827	US 1994312034	A	19940926	199640 B

Priority Applications (no., kind, date): US 1994312034 A 19940926

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 5550033	A	EN	7	6		

Alerting Abstract US A

Biological **tissue slicer** system includes an embedding arrangement with moulds (14) in which a mould plunger (22) is inserted. Each mould (14) has a cylindrical inner cavity with a tapered region and the plunger includes a cylindrical head (23) with upper engaging surface (25) and a tapered **section** (26) to a lower stem portion (27). **Tissue sample** is placed on the engaging surface of the plunger within the mould and liq. gel is poured into the mould for solidification. Pref. magnetic **material** (34) is provided adjacent to the lower stem. The mould is pref. made from metal resistant to corrosion and thermal deformation at sterilisation temps.

Also claimed is a method of making **tissue samples** using a **microtome** to obtain a **sample** to be placed on the plunger head within the mould cavity and adding gel liq. to form a **tissue** block for **slicing** with a blade.

ADVANTAGE - Optimum **support** and orientation to **tissue** fragments during prepn. of **tissue slices** .

Class Codes

International Classification (Main): C12Q-001/08

US Classification, Issued: 435040520, 435283100, 435309100, 422102000,

422104000, 425117000, 083021000, 083025000, 083373000, 083401000,
083409000, 083422000, 083438000, 083444000, 083451000, 083648000,
083915500

24/5/20 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0003363694

WPI ACC NO: 1985-129448/

Incubation dish for biological tissue sample - for embedding latter in paraffin using grid frame

Patent Assignee: FREIHERR VON GISE H (VGIS-I)

Inventor: FREIHERR H

Patent Family (1 patents, 4 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
EP 142575	A	19850529	EP 1983111656	A	19831122	198522 B
Priority Applications (no., kind, date): EP 1983111656 A 19831122						

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 142575	A	DE	11	4		

Regional Designated States, Original: DE FR GB SE

Alerting Abstract EP A

The perforated grid **frame** is placed over the biological **tissue**, which is placed over the perforated base of the dish. The latter has rupture lines for allowing it to be torn away and counter bearing surfaces for the grid **frame**, the latter having edge projections fitting into openings in the sides of the dish, to secure it in place.

Alternatively the dish has a solid base with external ribs used to space stacked dishes from one another.

USE - For embedding biological **tissue sample** in paraffin prior to **slicing** via **microtome** for obtaining microscope specimen.

Class Codes

(Additional/Secondary): G01N-001/28

24/5/21 (Item 21 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0003342139

WPI ACC NO: 1985-106510/198518

XRAM Acc No: C1985-046158

XRPX Acc No: N1985-079855

Capsule for embedding tissue sample - has top frame covered by porous fabric e.g. non-woven nylon passing liquid to retained sample

Patent Assignee: PELAM INC (PELA-N)

Inventor: MCCORMICK J B

Patent Family (5 patents, 12 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
EP 139424	A	19850502	EP 1984305951	A	19840830	198518 B
US 4569647	A	19860211	US 1983533192	A	19830916	198609 E
CA 1238753	A	19880705				198830 E
EP 139424	B	19890118	EP 1984305951	A	19840830	198903 E
DE 3476265	G	19890223				198909 E

Priority Applications (no., kind, date): US 1983533192 A 19830916

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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EP 139424	A	EN	22	8		
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Regional Designated States, Original: AT BE CH DE FR GB IT LI LU NL SE
CA 1238753 A EN

EP 139424 B EN

Regional Designated States, Original: AT BE CH DE FR GB IT LI LU NL SE

Alerting Abstract EP A

A capsule comprises a **frame** (14) fitting peripherally on an open-top holder (16) for a **sample**, and porous fabric (18) spread across the **frame** opening and allowing **tissue** processing liquid and liquefied embedding **material** to enter the holder while preventing the loss of **tissue**.

The holder bottom (20) may be porous to allow access of liquids and melts, and the fabric is nonwoven nylon with a porosity of 35-65% and max. pore size of 5 microns. The **frame** may be formed to retain a protruding block of solidified embedding **material** containing the **sample** so that the **frame** can be clamped in a **microtome** chuck for **slicing** the protruding part.

ADVANTAGE - Permits processing at max. efficiency and without cross-contamination.

Equivalent Alerting Abstract US A

Appts. for prep. multiple **tissue** specimens for histological examination comprises stackable capsules which include a mould and a complementary cover. Each mould and cover includes an open **frame** with the cover **frame** being more rigid than the mould **frame**. The stacked **frames** define a continuous passageway for **tissue** treating fluids. Each mould has a web spanning the passageway to define **tissue** receiving cavities.

ADVANTAGE - Cross-contamination is possible. (8pp) o

Class Codes

International Classification (Main): B29C-041/00

(Additional/Secondary): G01N-001/28

US Classification, Issued: 425117000, 118429000, 118500000, 249081000, 249126000, 422099000, 425121000, 425470000, 435284000, 435287000

24/5/24 (Item 24 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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0001837039

WPI ACC NO: 1979-J2940B/

Histological sections precision microtome - uses piezo-converter and longitudinal travelling waves for fine adjustment of position of specimen holder

Patent Assignee: KAUN MED INST (KUME); KAUN POLY (KUPO)

Inventor: BALTRUSHAI K S; BARANAUSKA P A

Patent Family (1 patents, 1 countries)

Patent	Application
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Number	Kind	Date	Number	Kind	Date	Update
SU 638862	A	19781225	SU 2491347	A	19770601	197939 B

Alerting Abstract SU A

Accurate **microtome** design is presented for procuring histological **samples** of animal and vegetable **tissue** for microscope study. The design of the device ensures more efficient **sectioning** than in normal instruments.

The stand, knife, knife holder and its propulsion are of conventional design; the specimen holder is made to carry on its **supporting** part a piezo-electric converter, transforming an applied electrical pulse into a

longitudinal travelling; the number of waves can be varied and so represent a measure of specimen holder adjustment from a fraction of a micron to several mm.

Stand (1) carries an upper **structure** with guides (2), along which the knife and knife holder (4, 3) can be slid from some form of propulsion (5). The specimen (6) is normally mounted on a holder (7), having a vertical rear part.

This part is surrounded by a piezo converter (8), held between dampers (9) serving to eliminate standing waves.

Class Codes

(Additional/Secondary): G01N-001/06

26/26, TI/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0015409909

WPI ACC NO: 2005-755830/200577

Apparatus for obtaining information about sample e.g. biological tissue, polymer comprises first section to detect polarization sensitive radiation emitted by object and second section determining Jones matrix on obtained information

Original Titles:

Method and apparatus for obtaining information from polarization-sensitive optical coherence tomography

26/26, TI/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0015288359

WPI ACC NO: 2005-638501/200565

Method for growing a tissue ex vivo and transplanting the tissue into a host involves embedding three-dimensional mammalian tissue sample having cut surface exposing blood vessel in a matrix, followed by incubation and transplantation

Original Titles:

Three-dimensional ex vivo angiogenesis system

26/26, TI/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0014807388

WPI ACC NO: 2005-155076/200517

Tissue slicing apparatus for preparing tissue samples for prostate cancer diagnosis, has cradle with slits for receiving blades which are linked to support, during tissue slicing operation, such that blades are movable in slits

26/26, TI/10 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0012325914

WPI ACC NO: 2002-267744/

Surgical biopsy apparatus, stripper which longitudinally slices the tissue sample from the opening of the vacuum support tube

26/5/5 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0013432434 - Drawing available

WPI ACC NO: 2003-523336/200349

Related WPI Acc No: 2003-441453; 2003-449468; 2003-532871; 2004-821670

XRPX Acc No: N2003-415192

Harvesting tissue sample by lifting skin outer surface using support element and slicing at set distance to separate skin and outer surface

Patent Assignee: MEDGENICS INC (MEDG-N)

Inventor: BELLOMO S F; BUKHMAN M; LIPPIN I; PEARLMAN A L; ROSENBERG L; SHAVITT M D

Patent Family (3 patents, 99 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
WO 2003049783	A2	20030619	WO 2002IL878	A	20021105	200349 B
AU 2002347576	A1	20030623	AU 2002347576	A	20021105	200420 E
AU 2002347576	A8	20051020	AU 2002347576	A	20021105	200615 E

Priority Applications (no., kind, date): US 2002393745 P 20020708; US 2001330959 P 20011105; US 2002393746 P 20020708

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
WO 2003049783	A2	EN	89	38		

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States,Original: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

AU 2002347576	A1	EN	Based on OPI patent	WO 2003049783
AU 2002347576	A8	EN	Based on OPI patent	WO 2003049783

Alerting Abstract WO A2

NOVELTY - Method consists in attaching the outside of the **tissue sample** to a flat surface by vacuum suction or using an adhesive surface, lifting them and **slicing** the **tissue** at a given distance below the surface area to separate the **tissue** from the subject. The **tissue** size is 3-150mm.

DESCRIPTION - There is an INDEPENDENT CLAIM for a dermatome.

USE - Method relates to the field of **tissue**-based micro-organs and delivery of therapeutic agents.

DESCRIPTION OF DRAWINGS - The figure shows a method of harvesting a skin **sample**.

Class Codes

International Classification (Main): A61B-010/00, A61M

26/5/6 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0013243460 - Drawing available

WPI ACC NO: 2003-328614/

XRAM Acc No: C2003-085453

XRPX Acc No: N2003-262808

Analyzing tissue sample involves homogenizing small sections from tissue

block in buffer, applying homogenized specimen to membrane , applying labeled probe, and measuring signal from labeled probe

Patent Assignee: EMMERT-BUCK M R (EMME-I)

Inventor: EMMERT-BUCK M R

Patent Family (3 patents, 100 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20020182647	A1	20021205	US 2001287019	P	20010430	200331 B
			US 2002134392	A	20020430	
WO 2004001413	A1	20031231	WO 2003US11489	A	20030424	200402 E
AU 2003278535	A1	20040106	AU 2003278535	A	20030424	200447 E

Priority Applications (no., kind, date): US 2001287019 P 20010430; US 2002134392 A 20020430

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020182647	A1	EN	16	14	Related to Provisional US 2001287019
WO 2004001413	A1	EN			

National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Regional Designated States, Original: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

AU 2003278535 A1 EN Based on OPI patent WO 2004001413

Alerting Abstract US A1

NOVELTY - A **tissue sample** is analyzed by determining the cellular content of a **tissue block** (10), obtaining small **tissue sections** (11a-11c) from the block, homogenizing the **tissue sections** in a buffer (12), applying the homogenized specimen to a **membrane** to produce a HistoStamp, applying a labeled probe, and measuring the signal from the labeled probe to determine the abundance level of the biomolecule.

DESCRIPTION - Analyzing a **tissue sample** comprises determining the cellular content of a **tissue block**, obtaining small **tissue sections** from the **tissue block** such that the small **tissue sections** contain a cell type(s), homogenizing the **tissue sections** in a buffer to create a homogenized specimen, applying the homogenized specimen to a **membrane** to produce a HistoStamp, applying a labeled probe that is specific for an individual biomolecule corresponding to the cell type to the HistoStamp, and measuring the signal from the labeled probe to determine the abundance level of the biomolecule.

USE - For analyzing biomolecules, e.g. DNA, mRNA, and proteins in **tissue samples**.

ADVANTAGE - The invention can detect biomolecules that are expressed at moderate or low levels of abundance that are fresh/frozen, and that are archival formalin-fixed specimen. It allows multiple **tissue samples** to be analyzed simultaneously, and provides increased flexibility of specimen selection over previously used **tissue array** formats.

DESCRIPTION OF DRAWINGS - The figure shows a flowchart of the inventive method.

- 10 **Tissue block**
- 11a-11c **Tissue sections**
- 12 **Buffer**
- 14 **Cellular lysate**

Class Codes

International Classification (Main): G01N-033/53
(Additional/Secondary): G01N-033/543
US Classification, Issued: 435007200

26/5/8 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0013075645

WPI ACC NO: 2003-155942/200315

Related WPI Acc No: 2004-698089

XRAM Acc No: C2003-040421

XRPX Acc No: N2003-123047

Cutting biological samples e.g. tissue fragments, by locating the sample and a colored film of specific thickness on one side of a support and irradiating the sample with a light beam, thus cutting out target area of the sample

Patent Assignee: ARAKATSU H (ARAK-I); FUJI PHOTO FILM CO LTD (FUJF);
HANAI K (HANA-I); OGAWA M (OGAW-I); TAKAHASHI M (TAKA-I)

Inventor: ARAKATSU H; HANAI K; OGAWA M; TAKAHASHI M

Patent Family (4 patents, 2 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 20020142412	A1	20021003	US 200145539	A	20011026	200315 B
JP 2002202229	A	20020719	JP 2001328641	A	20011026	200315 E
US 6733987	B2	20040511				200431 E
JP 3773831	B2	20060510	JP 2001328641	A	20011026	200635 E

Priority Applications (no., kind, date): JP 2000332252 A 20001031

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020142412	A1	EN	6	1	
JP 2002202229	A	JA	7		
JP 3773831	B2	JA	8		Previously issued patent JP 2002202229

Alerting Abstract US A1

NOVELTY - **Cutting** (M) a biological **sample** by light irradiation, comprises locating the biological **sample** and a colored film having a thickness of 3-6 microm onto one side of a **support** and irradiating the biological **sample** with a light beam, thus **cutting** out a target area of the biological **sample**.

DESCRIPTION - INDEPENDENT CLAIMS are also included for:

1. **cutting** and collecting a biological **sample**, by **cutting** out the biological **sample** by (M) and then collecting the **sample** which was cut out; and

2. a device (I) for **cutting** a biological **sample**, comprising a colored film having a thickness of 3-6 microm located on one side of a **support**.

USE - (M) is useful for **cutting** a biological **sample** e.g. living **tissue** fragments, cells, chromosomes or microorganisms, by light irradiation (claimed).

The method is useful for **cutting** biological **sample** containing a diseased lesion (e.g. cancer), and separating and collecting the cells from the normal cells.

ADVANTAGE - The operativity of the method is good and **cutting** sharpness in **cutting** by laser beam is good.

Class Codes

International Classification (Main): C12N-013/00, G01N-001/28, G01N-001/44

(Additional/Secondary): G01N-001/30, G01N-033/48

International Classification (+ Attributes)

IPC + Level Value Position Status Version
G01N-0001/28 A I F B 20060101

26/5/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0012506939 - Drawing available

WPI ACC NO: 2002-454948/200248

XRAM Acc No: C2002-129457

XRPX Acc No: N2002-358743

Container for holding samples, especially biological samples cut from tissue using a laser beam, for microscopic examination has base made from light-scattering material

Patent Assignee: PALM GMBH (PALM-N); PALM MICROLASER TECHNOLOGIES AG
(PALM-N)

Inventor: SCHUETZE K; SCHUETZE R; SCHUTZE K; SCHUTZE R

Patent Family (4 patents, 96 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
WO 2002042824	A2	20020530	WO 2001EP12481	A	20011029	200248 B
DE 10058316	A1	20020613	DE 10058316	A	20001124	200248 E
AU 200215978	A	20020603	AU 200215978	A	20011029	200263 E
AU 2002215978	A8	20050908	AU 2002215978	A	20011029	200568 E

Priority Applications (no., kind, date): DE 10058316 A 20001124

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
WO 2002042824	A2	DE	28	3		

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY
BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ
NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN
YU ZA ZW

Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH
GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200215978 A EN Based on OPI patent WO 2002042824

AU 2002215978 A8 EN Based on OPI patent WO 2002042824

Alerting Abstract WO A2

NOVELTY - Container (1) for holding **samples** (20), especially biological **samples**, for microscopic examination has a base (3) made from a light-scattering **material**.

DESCRIPTION - An INDEPENDENT CLAIM is included for a one-piece unit comprising several of the containers.

USE - Especially for trapping biological **samples** cut from **tissue** using a laser beam.

DESCRIPTION OF DRAWINGS - The drawing shows a perspective view of a unit comprising several containers.

1 Container

3 Base

20 **Sample**

Class Codes

International Classification (Main): G02B-021/34

(Additional/Secondary): B01L-003/00

File 350:Derwent WPIX 1963-2006/UD=200658
File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)

Set	Items	Description
S1	1286	AU=(WILLIAMSON W? OR WILLIAMSON, W? OR WHITLATCH S? OR WHITLATCH, S? OR DINOVO D? OR DINOVO, D? OR ALLEN D? OR ALLEN, D? OR WARD T? OR WARD, T?)
S2	137875	TISSUE
S3	734	MICROTOME? ? OR HISTOTOME? ?
S4	6126	BIOPS???
S5	71	S1 AND S2:S4
S6	8	S1 AND S4
S7	6	S1 AND S3
S8	10	S6:S7
S9	88994	IC=A61B-005?
S10	8	S1 AND S9
S11	6	S10 NOT S8 [not relevant]
S12	5094	TISSUE()SAMPL???
S13	6	S1 AND S12
S14	0	S13 NOT (S8 OR S10)

8/5/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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0014155536 - Drawing available
WPI ACC NO: 2004-340462/200431
Related WPI Acc No: 2004-305132; 2005-306443
XRAM Acc No: C2004-129280
XRPX Acc No: N2004-272155

Automatic tissue sample embedding machine has dispenser that dispenses embedding material on microtome supports and dispenses tissue samples carried by each support during embedding operation

Patent Assignee: BIOPATH AUTOMATION LLC (BIOP-N)
Inventor: ALLEN D P ; DINOVO D P ; HUDDLESTON M J; HUGHES K E; KELLER G A ; KUISICK K A; QUAM R P; ROBINSON C R; TURNER J E; VANHOOSE E D; WARD T J ; WHITLATCH S P ; WILLIAMSON W P

Patent Family (8 patents, 100 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
WO 2004029584	A1	20040408	WO 2002US30779	A	20020926	200431 B
AU 2002337729	A1	20040419	AU 2002337729	A	20020926	200462 E
			WO 2002US30779	A	20020926	
US 20050084425	A1	20050421	US 2003512147	P	20031017	200528 E
			US 2004963315	A	20041012	
BR 200215830	A	20050607	BR 200215830	A	20020926	200538 E
			WO 2002US30779	A	20020926	
EP 1552266	A1	20050713	EP 2002773621	A	20020926	200546 E
			WO 2002US30779	A	20020926	
US 20050226770	A1	20051013	WO 2002US30779	A	20020926	200567 E
			US 200410773	A	20041213	
JP 2006500585	W	20060105	WO 2002US30779	A	20020926	200603 E
			JP 2004539747	A	20020926	
CN 1668908	A	20050914	CN 2002829687	A	20020926	200617 E
			WO 2002US30779	A	20020926	

Priority Applications (no., kind, date): WO 2002US30775 A 20020926; WO 2002US30779 A 20020926

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2004029584	A1	EN	72	29	
National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					
Regional Designated States, Original: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW					
AU 2002337729	A1	EN			PCT Application WO 2002US30779 Based on OPI patent WO 2004029584
US 20050084425	A1	EN			Related to Provisional US 2003512147
BR 200215830	A	PT			PCT Application WO 2002US30779 Based on OPI patent WO 2004029584
EP 1552266	A1	EN			PCT Application WO 2002US30779 Based on OPI patent WO 2004029584
Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
US 20050226770	A1	EN			Continuation of application WO 2002US30779
JP 2006500585	W	JA	51		PCT Application WO 2002US30779 Based on OPI patent WO 2004029584
CN 1668908	A	ZH			PCT Application WO 2002US30779

Alerting Abstract WO A1

NOVELTY - An automatic tissue sample embedding machine is new. The machine comprises cooling units which hold the **microtome** supports conveyed by pick and place robot (40) during tissue embedding operation. A dispenser dispenses embedding material on **microtome** supports and dispenses tissue sample carried by each support during embedding operation.

DESCRIPTION - An INDEPENDENT CLAIM is also included for automatic tissue sample embedding method.

USE - For automatic handling and embedding of tissue samples for **biopsy** analysis performed to diagnose various tissue diseases and conditions in pathology laboratory.

ADVANTAGE - Since the tissue sample is not removed in the middle of processing, processing time is reduced and human error due to separate tissue handling steps is reduced.

DESCRIPTION OF DRAWINGS - The figure shows the perspective view of the automatic tissue sample embedding machine.

22 control panel

32a-32d output units

40 pick and place robot

Class Codes

International Classification (Main): B01L-003/00, G01N-001/00

(Additional/Secondary): B32B-005/02

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G01N-0001/28 A I L B 20060101

G01N-0001/36 A I F B 20060101

G01N-0033/48 A I L B 20060101

US Classification, Issued: 422102000, 422063000, 422102000

8/5/5 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0014120650 - Drawing available

WPI ACC NO: 2004-305132/200428

Related WPI Acc No: 2004-340462; 2005-306443

XRAM Acc No: C2004-116038

Cassette for holding a tissue sample, comprises that the longest side walls which are V-shaped, extend towards other side walls

Patent Assignee: BERKY C B (BERK-I); BIOPATH AUTOMATION LLC (BIOP-N);

WARD T J (WARD-I); WHITLATCH S P (WHIT-I); WILLIAMSON W P (WILL-I)

Inventor: BERKY C B; CRAIG B B; STEPHEN P W; THOMAS J W; WARD T J; WARREN

P W; WHITLATCH S P; WILLIAMSON W P; WILLIAMSON W P I

Patent Family (7 patents, 100 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
WO 2004028693	A1	20040408	WO 2002US30775	A	20020926	200428 B
AU 2002341872	A1	20040419	AU 2002341872	A	20020926	200462 E
			WO 2002US30775	A	20020926	
EP 1545775	A1	20050629	EP 2002776027	A	20020926	200543 E
			WO 2002US30775	A	20020926	
US 20050147538	A1	20050707	WO 2002US30775	A	20020926	200547 E
			US 200572119	A	20050304	
BR 200215894	A	20050927	BR 200215894	A	20020926	200565 E
			WO 2002US30775	A	20020926	
JP 2006500584	W	20060105	WO 2002US30775	A	20020926	200603 E
			JP 2004539746	A	20020926	
CN 1684772	A	20051019	CN 2002829673	A	20020926	200625 E
			WO 2002US30775	A	20020926	

Priority Applications (no., kind, date): WO 2002US30775 A 20020926

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2004028693	A1	EN	38	12	

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States,Original: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

AU 2002341872 A1 EN PCT Application WO 2002US30775
 Based on OPI patent WO 2004028693

EP 1545775 A1 EN PCT Application WO 2002US30775
 Based on OPI patent WO 2004028693

Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

US 20050147538 A1 EN Continuation of application WO 2002US30775

BR 200215894 A PT PCT Application WO 2002US30775
 Based on OPI patent WO 2004028693

JP 2006500584 W JA 25 PCT Application WO 2002US30775
 Based on OPI patent WO 2004028693

CN 1684772 A ZH PCT Application WO 2002US30775

Alerting Abstract WO A1

NOVELTY - A cassette for holding a tissue sample comprises a bottom wall (24) and several side walls (22a-22d) that are made of a material capable of sectioned in a **microtome**, where the two longest side walls (22a,22c)

are V-shaped and extend towards the other side walls.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.tissue embedding assembly;
- 2.tissue sample cassette staging device; and
- 3.tissue sample slice cutting method.

USE - Cassette for holding sample of tissue removed from patient's body (claimed).

ADVANTAGE - Since the side walls are V-shaped, deterioration of hardened paraffin from cassette side wall is prevented effectively.

DESCRIPTION OF DRAWINGS - The figure shows an exploded perspective view of the tissue cassette assembly, frame and base mold.

- 10 cassette
- 12 frame
- 20 cassette unit
- 22a-22d side walls
- 24 bottom wall

Class Codes

International Classification (Main): B01L-003/00

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G01N-0001/36	A	I	F	B	20060101
B01L-0003/00	A	I		R	20060101
B01L-0009/00	A	I		R	20060101
G01N-0001/31	A	N		R	20060101
G01N-0001/36	A	I		R	20060101
B01L-0003/00	C	I		R	20060101
B01L-0009/00	C	I		R	20060101
G01N-0001/30	C	N		R	20060101
G01N-0001/36	C	I		R	20060101

US Classification, Issued: 422102000

8/5/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0009999938 - Drawing available

WPI ACC NO: 2000-303599/

XRAM Acc No: C2000-092138

XRPX Acc No: N2000-226851

Microtome sectionable tissue support for use with biopsy sample resists histological stains, chemical or solvent degradation and remains non-distracting during tissue preparation

Patent Assignee: ALLEN D (ALLE-I); BIOPATH AUTOMATION LLC (BIOP-N);

DINOVO D (DINO-I); DINOVO D P (DINO-I); WARD T (WARD-I); WARD T J

(WARD-I); WHITLACH S (WHIT-I); WILLIAMSON W N (WILL-I); WILLIAMSON W P (WILL-I)

Inventor: ALLEN D ; DINOVO D ; DINOVO D P ; WARD T ; WARD T J ;

WHITLACH S; WILLIAMSON W N ; WILLIAMSON W P

Patent Family (4 patents, 80 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2000019897	A1	20000413	WO 1998US20478	A	19981005	200026 B
AU 199897804	A	20000426	AU 199897804	A	19981005	200036 E
			WO 1998US20478	A	19981005	
EP 1146817	A1	20011024	EP 1998951995	A	19981005	200171 E
			WO 1998US20478	A	19981005	

AU 763635 B 20030731 AU 199897804 A 19981005 200359 NCE
Priority Applications (no., kind, date): AU 199897804 A 19981005; WO
1998US20478 A 19981005

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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WO 2000019897	A1	EN	133	82		
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National Designated States,Original: AL AM AT AU AZ BA BB BG BR BY CA CH
CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT UA UG US UZ VN YU ZW

Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH
GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 199897804	A	EN			PCT Application	WO 1998US20478
					Based on OPI patent	WO 2000019897
EP 1146817	A1	EN			PCT Application	WO 1998US20478
					Based on OPI patent	WO 2000019897

Regional Designated States,Original: DE DK ES FR GB IE IT
AU 763635 B EN Previously issued patent AU 9897804
Based on OPI patent WO 2000019897

Alerting Abstract WO A1

NOVELTY - A **microtome** sectionable tissue support, for supporting histological tissue **biopsy** samples, has devices resisting histological stains and degradation from solvents and chemicals used to fix, process, and stain the tissue, a device permitting sectioning of the support in a **microtome** and a device keeping the support non-distracting during tissue preparation.

DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- 1.a tissue sample container including the novel support;
- 2.a biopsy tissue harvesting device including the novel support;
- 3.preparing a biopsy tissue sample for histological examination by immobilizing the sample on a support, replacing tissue fluid with wax, embedding the sample in a wax mold to form a solid block, slicing it with a microtome, and mounting a slice on a support for examination;
- 4.a sample for microscopic analysis includes the novel support mounted on a microscopic examination support;
- 5.a tissue analysis automation process comprises immobilizing the tissue on a machine manipulatable support, and replacing its fluid with wax;
- 6.analyzing biopsy samples using the process of (5);
- 7.a histological tissue sample support, comprising a frame, a microtome sectionable supporting cassette for supporting tissue samples during the tissue processing, embedding and microtomy, including means for allowing the cassette to be sectioned, means for resisting histological stains and degradation from solvents and chemicals used to fix, process and stain the tissue, and non-distracting means for maintaining the cassette during tissue processing and slide preparation, and a retainer on the frame for releasably holding the cassette in the frame;
- 8.an orientation device having supporting legs carrying an openable device for pinching/supporting a biopsy sample; and
- 9.a platform or a container comprising a sectionable tissue support, formed of material which can be sectioned in a microtome, is resistant to histological stains and degradation from solvents and chemicals used to fix, process and stain tissue, and a medium in which the support is embedded.

USE - The novel support and methods can be used for **preparing** biopsy samples for cancer diagnosis.

ADVANTAGE - The support facilitates automation of sample preparation.

DESCRIPTION OF DRAWINGS - The drawing shows a support cassette
A', A filters
12 frame
14 tissue support
16 collar
18 grooves
20 projections

Class Codes

International Classification (Main): A61B-005/103

8/5/10 (Item 10 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0009000815 - Drawing available

WPI ACC NO: 1998-556230/199847

XRFX Acc No: N1998-433622

Harvesting and handling tissue samples for biopsy analysis - using tissue trapping platforms, so enabling tissue processing and wax embedding procedures to be automated

Patent Assignee: BIOPATH AUTOMATION LLC (BIOP-N)

Inventor: WHITLACH S P; WILLIAMSON W P

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 5817032	A	19981006	US 1996645750	A	19960514	199847 B

Priority Applications (no., kind, date): US 1996645750 A 19960514

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 5817032	A	EN	41	46	

Alerting Abstract US A

A tissue **biopsy** sample is placed on a tissue trapping and supporting material that can withstand tissue preparation procedures and which can be cut with a **microtome**. The tissue is immobilized on the material, and the material and the tissue are subjected to a process for replacing tissue fluids with wax, and then the tissue and the supporting material are sliced for mounting on slides using a **microtome**.

Harvesting devices and containers using the filter material are provided. An automated process may be used. The tissue trapping and supporting material is porous, or alternatively includes a tissue supporting material that is not easily **microtomed**.

ADVANTAGE - Maintains the preferred orientation of the tissue sample from the time of initial gross-in throughout the tissue processing procedure and continuing through the wax embedding stage with no human involvement required beyond initial gross in.

Class Codes

International Classification (Main): A61B-005/00

US Classification, Issued: 600562000, 604319000, 422101000

8/5/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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0014958659 - Drawing available

WPI ACC NO: 2005-306443/200531

Related WPI Acc No: 2004-305132; 2004-340462

XRPX Acc No: N2005-250704

Biopsy cassette for holding skin samples for pathological analysis, has holes associated with housing and lid to allow optical scanner to determine characteristic like size of cassette

Patent Assignee: BIOPATH AUTOMATION LLC (BIOP-N)

Inventor: WARD T J; WHITLATCH S P; WILLIAMSON W P; WARD T; WHITLATCH S; WILLIAMSON W

Patent Family (2 patents, 107 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2005037182	A2	20050428	WO 2004US33604	A	20041012	200531 B
EP 1682272	A2	20060726	EP 2004794852	A	20041012	200649 E
			WO 2004US33604	A	20041012	

Priority Applications (no., kind, date): US 2003512147 P 20031017

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2005037182	A2	EN	30	8	

National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States, Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

EP 1682272 A2 EN PCT Application WO 2004US33604
Based on OPI patent WO 2005037182

Regional Designated States, Original: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

Alerting Abstract WO A2

NOVELTY - The cassette housing (16) includes a bottom wall (28) and side wall (26) that extends upwards with respect to the bottom wall to define an interior space for receiving a tissue sample. The holes (12) associated with the housing and lid (24) is configured to allow an optical scanner to determine the characteristic like size, shape, structural and functional characteristics of the cassette (10).

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. method of handling cassette containing tissue sample during embedding procedure;

2. method of handling frame for holding cassette with tissue sample.

USE - For holding and orienting tissue samples such as biopsy samples of skin, gal bladder and bladder, for histologic and pathologic analysis during processing, embedding and **microtome** procedures.

ADVANTAGE - Allows the histotechnologist to place the tissue in the proper orientation for **sectioning** at the time of gross-in. The parallel sidewall is avoided with respect to the **frame** side to increase microtime **slicing** efficiency.

DESCRIPTION OF DRAWINGS - The figure shows a perspective view of the biopsy cassette.

- 10 cassette
- 12, 20 holes
- 16 cassette housing
- 24 lid
- 26 side wall
- 28 bottom wall
- 80 **frame**

ASRC Searcher: Jeanne Horrigan
Serial 09/890177
September 18, 2006

35

Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

B01L-0003/00 A I F B 20060101

A61J S I R 20060101

File 155:MEDLINE(R) 1950-2006/Sep 18
(c) format only 2006 Dialog
File 5:Biosis Previews(R) 1969-2006/Sep W2
(c) 2006 The Thomson Corporation
File 73:EMBASE 1974-2006/Sep 15
(c) 2006 Elsevier B.V.
File 34:SciSearch(R) Cited Ref Sci 1990-2006/Sep W2
(c) 2006 The Thomson Corp
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 2006 The Thomson Corp

Set	Items	Description
S1	12225	AU=(WILLIAMSON W? OR WILLIAMSON, W? OR WHITLATCH S? OR WHITLATCH, S? OR DINOVA D? OR DINOVA, D? OR ALLEN D? OR ALLEN, D? OR WARD T? OR WARD, T?)
S2	53158	TISSUE() SAMPL??? OR MICROTOME? ? OR HISTOTOME? ?
S3	13	S1 AND S2
S4	6	RD (unique items)
S5	5715132	PATHOLOGY OR LAB OR LABORATORY
S6	1039	S1 AND S5
S7	802184	BIOPSY OR BIOPSIES
S8	59	S6 AND S7
S9	6237382	TISSUE OR SAMPL???
S10	16	S8 AND S9
S11	15	S10 NOT S3
S12	9	RD (unique items)
S13	9	Sort S12/ALL/PY,A [not relevant]
S14	619	S5/DE AND S6
S15	125	(S7 OR S9) AND S14
S16	1117691	SECTION???
S17	6	S15 AND S16
S18	4	S17 NOT (S3 OR S10) [not relevant]

4/9/4 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2006 The Thomson Corporation. All rts. reserv.
0013535157 BIOSIS NO.: 200200128668
Means and method for harvesting and handling tissue samples for biopsy analysis
AUTHOR: Williamson W P IV ; Whitlach S P
AUTHOR ADDRESS: Loveland, Ohio, USA**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1215 (1): p414 Oct. 6, 1998 1998
MEDIUM: print
ISSN: 0098-1133
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LANGUAGE: English
DESCRIPTORS:
MAJOR CONCEPTS: Methods and Techniques; Pathology; Public Health--Allied Medical Sciences
MISCELLANEOUS TERMS: ANALYTICAL TECHNIQUES; DIAGNOSTIC TESTING; TOOLS
CONCEPT CODES:
12504 Pathology - Diagnostic
37001 Public health - General and miscellaneous
01004 Methods - Laboratory methods